



1600

## RAW SEQUENCE LISTING

DATE: 11/21/2002

PATENT APPLICATION: US/08/832,443C

TIME: 14:35:54

Input Set : A:\08832443.txt

Output Set: N:\CRF4\11212002\H832443C.raw

## SEQUENCE LISTING

## 4 (I) GENERAL INFORMATION:

6 (i) APPLICANT: TSYRLOVA, IRENA

7 WOJPE, STEPHEN D.

9 (ii) TITLE OF INVENTION: INHIBITOR OF STEM CELL PROLIFERATION AND  
10 USES THEREOF

11 (iii) NUMBER OF SEQUENCES: 36

14 (iv) CORRESPONDENCE ADDRESS:

15 (A) ADDRESSEE: NIXON &amp; VANDERHUYE P.C.

16 (B) STREET: 1100 NORTH GLEBE ROAD

17 (C) CITY: ARLINGTON

18 (D) STATE: VIRGINIA

19 (E) COUNTRY: U.S.A.

20 (F) ZIP: 22201-4314

22 (v) COMPUTER READABLE FORM:

23 (A) MEDIUM TYPE: floppy disk

24 (B) COMPUTER: IBM PC compatible

25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

26 (D) SOFTWARE: MS Word

28 (vi) CURRENT APPLICATION DATA:

C--&gt; 29 (A) APPLICATION NUMBER: US/08/832,443C

C--&gt; 30 (B) FILING DATE: 03-Apr-1997

31 (C) CLASSIFICATION:

33 (vii) PRIOR APPLICATION DATA:

34 (A) APPLICATION NUMBER: US 08,627,173

35 (B) FILING DATE: 03-APR-1996

36 (2) INFORMATION FOR SEQ ID NO: 1:

40 (i) SEQUENCE CHARACTERISTICS:

41 (A) LENGTH: 13 amino acids

42 (B) TYPE: amino acid

43 (C) STRANDEDNESS:

44 (D) TOPOLOGY: linear

45 (ii) MOLECULE TYPE: peptide

46 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

50 Phe Pro His Phe Asp Leu Ser His Gly Ser Ala Gln Val

51 1 5 10

54 (2) INFORMATION FOR SEQ ID NO: 2:

56 (i) SEQUENCE CHARACTERISTICS:

57 (A) LENGTH: 15 amino acids

58 (B) TYPE: amino acid

59 (C) STRANDEDNESS:

60 (D) TOPOLOGY: linear

62 (ii) MOLECULE TYPE: peptide

ENTERED

## RAW SEQUENCE LISTING

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Input Set : A:\08832443.txt

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61 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
62 Cys His Pro His Phe Asp Leu Ser His Gly Ser Ala Gln Val Cys
63 1 5 10 15
71 (2) INFORMATION FOR SEQ ID NO: 3:
72 (i) SEQUENCE CHARACTERISTICS:
73 (A) LENGTH: 19 amino acids
74 (B) TYPE: amino acid
75 (C) STRANDEDNESS:
76 (D) TOPOLOGY: linear
77 (ii) MOLECULE TYPE: peptide
81 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
82 Asp Ala Leu Pro Asn Ala Val Ala His Val Asp Asp Met Pro Asn Ala
83 1 5 10 15
84 Leu Ser Ala
85 (2) INFORMATION FOR SEQ ID NO: 4:
86 (i) SEQUENCE CHARACTERISTICS:
87 (A) LENGTH: 12 amino acids
88 (B) TYPE: amino acid
89 (C) STRANDEDNESS:
90 (D) TOPOLOGY: linear
91 (ii) MOLECULE TYPE: peptide
92 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
93 Leu Val Val Tyr Pro Trp Thr Gln Arg Phe
94 1 5 10
101 (2) INFORMATION FOR SEQ ID NO: 5:
102 (i) SEQUENCE CHARACTERISTICS:
103 (A) LENGTH: 8 amino acids
104 (B) TYPE: amino acid
105 (C) STRANDEDNESS:
106 (D) TOPOLOGY: linear
107 (ii) MOLECULE TYPE: peptide
108 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
109 Leu Val Val Tyr Pro Trp Thr Gln Arg
110 1 5
111 (2) INFORMATION FOR SEQ ID NO: 6:
112 (i) SEQUENCE CHARACTERISTICS:
113 (A) LENGTH: 8 amino acids
114 (B) TYPE: amino acid
115 (C) STRANDEDNESS:
116 (D) TOPOLOGY: linear
117 (ii) MOLECULE TYPE: peptide
118 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
119 Leu Val Val Tyr Pro Trp Thr Gln
120 1 5
121 (2) INFORMATION FOR SEQ ID NO: 7:
122 (i) SEQUENCE CHARACTERISTICS:
123 (A) LENGTH: 7 amino acids
124 (B) TYPE: amino acid
125 (C) STRANDEDNESS:

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143      (D) TOPOLOGY: linear
145      (ii) MOLECULE TYPE: peptide
147      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
149      Leu Val Val Tyr Pro Trp Thr
150      1           5
153 (2) INFORMATION FOR SEQ ID NO: 8:
155      (i) SEQUENCE CHARACTERISTICS:
156          (A) LENGTH: 6 amino acids
157          (B) TYPE: amino acid
158          (C) STRANDEDNESS:
159          (D) TOPOLOGY: linear
161      (ii) MOLECULE TYPE: peptide
163      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
165      Leu Val Val Tyr Pro Trp
166      1           5
169 (2) INFORMATION FOR SEQ ID NO: 9:
171      (i) SEQUENCE CHARACTERISTICS:
172          (A) LENGTH: 4 amino acids
173          (B) TYPE: amino acid
174          (C) STRANDEDNESS:
175          (D) TOPOLOGY: linear
177      (ii) MOLECULE TYPE: peptide
179      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
181      Leu Val Val Tyr Pro
182      1           4
185 (2) INFORMATION FOR SEQ ID NO: 10:
187      (i) SEQUENCE CHARACTERISTICS:
188          (A) LENGTH: 7 amino acids
189          (B) TYPE: amino acid
190          (C) STRANDEDNESS:
191          (D) TOPOLOGY: linear
193      (ii) MOLECULE TYPE: peptide
195      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
197      Val Val Tyr Pro Trp Thr Gln
198      1           7
201 (2) INFORMATION FOR SEQ ID NO: 11:
203      (i) SEQUENCE CHARACTERISTICS:
204          (A) LENGTH: 7 amino acids
205          (B) TYPE: amino acid
206          (C) STRANDEDNESS:
207          (D) TOPOLOGY: linear
209      (ii) MOLECULE TYPE: peptide
211      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
213      Tyr Pro Trp Thr Gln Arg Phe
214      1           7
217 (2) INFORMATION FOR SEQ ID NO: 12:
219      (i) SEQUENCE CHARACTERISTICS:
220          (A) LENGTH: 6 amino acids
221          (B) TYPE: amino acid

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222 (C) STRANDEDNESS:
223 (D) TOPOLOGY: linear
225 (ii) MOLECULE TYPE: peptide
227 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
229 Tyr Pro Trp Thr Gln Arg
231 1 5
233 (2) INFORMATION FOR SEQ ID NO: 13:
235 (i) SEQUENCE CHARACTERISTICS:
237 (A) LENGTH: 7 amino acids
239 (B) TYPE: amino acid
241 (C) STRANDEDNESS:
243 (D) TOPOLOGY: linear
245 (ii) MOLECULE TYPE: peptide
247 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
249 Tyr Pro Trp Thr Gln
251 1 5
253 (2) INFORMATION FOR SEQ ID NO: 14:
255 (i) SEQUENCE CHARACTERISTICS:
257 (A) LENGTH: 6 amino acids
259 (B) TYPE: amino acid
261 (C) STRANDEDNESS:
263 (D) TOPOLOGY: linear
265 (ii) MOLECULE TYPE: peptide
267 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
269 Arg Met Tyr Met Phe Arg
271 1 6
273 (2) INFORMATION FOR SEQ ID NO: 15:
275 (i) SEQUENCE CHARACTERISTICS:
277 (A) LENGTH: 423 base pairs
279 (B) TYPE: nucleic acid
281 (C) STRANDEDNESS: single
283 (D) TOPOLOGY: linear
285 (ii) MOLECULE TYPE: DNA (genomic)
287 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
289 GTGCTSTCAG CTGCTGATGA GACCAACGTC AAGGCAGGCT GGGGTAAAGT CGGCGCGCAC 60
291 GCGGGGCACT ATGCTGCGGA GGCCTGGAG AGGATGTTCC TGTCTTCCC CACCACCAAG 120
293 ACCTACTTCC CGCATTTGGA CCGAGGCAC GGCTCTGCCC AGGTAAAGG CCAAGGCAAG 180
295 AAGTGTGCGG AGGCTTTCAC CACCGCGTG GGCACGTGG ACGACATGCC CAACGGGCTG 240
297 TCGGCGCTGA GGAATTTGCA CGCCACAAAG CTTCGGGTGG ACCGGGTCAA CTCAAGCTC 300
299 CTAAGCCACT GCGTCTGCT CACCTGTGCG GCGCACCTCC CGCGCGATT CACCCCTGCG 360
301 GTGCAGGCTT CCGTGGACAA GTTCTTGGCT TCTGTGAGCA CCGTGCTGAC CTCCAATAC 420
303 CGT 423
305 (2) INFORMATION FOR SEQ ID NO: 16:
307 (i) SEQUENCE CHARACTERISTICS:
309 (A) LENGTH: 141 amino acids
311 (B) TYPE: amino acid
313 (C) STRANDEDNESS:
315 (D) TOPOLOGY: linear
317 (ii) MOLECULE TYPE: peptide

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304 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

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306 Val Leu Ser Pro Ala Asp Lys Thr Asn Val Lys Ala Ala Trp Gly Lys
307      5      10      15
309 Val Gly Ala His Ala Gly Glu Tyr Gly Ala Glu Ala Leu Glu Arg Met
310      20      25      30
312 Phe Leu Ser Phe Pro Thr Thr Lys Thr Tyr Phe Pro His Phe Asp Leu
313      35      40      45
315 Ser His Gly Ser Ala Glu Val Lys Gly His Gly Lys Lys Val Ala Asp
316      50      55      60
318 Ala Leu Thr Asn Ala Val Ala His Val Asp Asp Met Pro Asn Ala Leu
319      65      70      75      80
321 Ser Ala Leu Ser Asp Leu His Ala His Lys Leu Arg Val Asp Pro Val
322      85      90      95
324 Asn Phe Lys Leu Leu Ser His Cys Leu Leu Val Thr Leu Ala Ala His
325      100     105     110
327 Leu Pro Ala Glu Phe Thr Pro Ala Val His Ala Ser Leu Asp Lys Phe
328      115     120     125
330 Leu Ala Ser Val Ser Thr Val Leu Thr Ser Lys Tyr Arg
331      130     135     140

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332 (2) INFORMATION FOR SEQ ID NO: 17:

333 (i) SEQUENCE CHARACTERISTICS:

334 (A) LENGTH: 438 base pairs

335 (B) TYPE: nucleic acid

336 (C) STRANDEDNESS: single

337 (D) TOPOLOGY: linear

338 (ii) MOLECULE TYPE: DNA (genomic)

339 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

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340 GTGCACTGTA CTCTGTA GA GAAGTCTGGC GTTACTACCC TGTGGGGCAA GGTGAACGTG      60
341 GATGAAGTGG GTGGTGAGGC CTTGGACAGG CTGCTGTGGG TCTACCTTTG GACCCAGAGG      120
342 TTCTTTGAGT GTTTTGGAGA TCTGTCACT CTGATCTG TTATGGGCAA CCTAAGGTG      180
343 AAGGCTCATG GCAAGAAAT CTTGGGTGGC TTTAGTATG GCTTGGCTCA CCTGGACAAC      240
344 CTCAGGGGCA CTTTGGGAC ACTGATTGAG CTGCACTGTG ACAAGCTGCA GGTGGATCCT      300
345 GAGAACTTCA GCTTATGGG CAACCTGCTG GTTGTGTGTG TGGCCCATCA CTTTGGCAAA      360
346 GAATTACCC GAGAGTCA GGTCTGTAT CAGAAATGG TGGCTGGTGT GGCTAATGCC      420
347 CTGGCCACCA AGTATCA
348                                     438

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349 (2) INFORMATION FOR SEQ ID NO: 18:

350 (i) SEQUENCE CHARACTERISTICS:

351 (A) LENGTH: 146 amino acids

352 (B) TYPE: amino acid

353 (C) STRANDEDNESS:

354 (D) TOPOLOGY: linear

355 (ii) MOLECULE TYPE: peptide

356 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

```

357 Val His Leu Thr Pro Glu Glu Lys Ser Ala Val Thr Ala Leu Trp Gly
358      5      10      15
360 Lys Val Asn Val Asp Glu Val Gly Gly Glu Ala Leu Gly Arg Leu Leu
361      20      25      30
363 Val Val Tyr Pro Trp Thr Gln Arg Phe Phe Glu Ser Phe Gly Asp Leu
364      35      40      45

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